

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (withdrawn) An isolated DNA sequence comprising a DNA sequence selected from the group consisting of:
  - a) nucleotides #256, 307, 310, 313, 316, 319, 322, 325 or 328 to #1140 or 1143 of SEQ ID NO: 1; and
  - b) sequences which hybridize to (a) under stringent hybridization conditions and encode a protein which exhibits *Frazzled* activity
2. (withdrawn) An isolated DNA sequence comprising a DNA sequence selected from the group consisting of:
  - a) nucleotide encoding amino acids #1, 18, 19, 20, 21, 22, 23, 24 or 25 to #295 of SEQ ID NO: 2;
  - b) nucleotides encoding amino acids #1 to #275 of SEQ ID NO: 3; and
  - c) sequences which hybridize to (a) or (b) under stringent hybridization conditions and encode a protein which exhibits *Frazzled* activity.
3. (withdrawn) A vector comprising a DNA molecule of claim 1 in operative association with an expression control sequence therefor.
4. (withdrawn) A vector comprising a DNA molecule of claim 2 in operative association with an expression control sequence therefor.
5. (withdrawn) A host cell transformed with the vector of claim 3.
6. (withdrawn) A host cell transformed with the vector of claim 4.
7. (withdrawn) An isolated DNA molecule comprising a DNA sequence selected from the group consisting of:
  - a) nucleotide #316 to #1143 of SEQ ID NO: 1; and
  - b) naturally occurring allelic sequences and equivalent degenerative codon sequences of (a).
8. (withdrawn) A vector comprising a DNA molecule of claim 7 in operative association with an expression control sequence therefor.
9. (withdrawn) A host cell transformed with the vector of claim 8.
10. (withdrawn) An isolated DNA molecule encoding human SDF-5 protein, said DNA molecule comprising nucleotide #316 to #1143 of SEQ ID NO: 1.
11. (withdrawn) An isolated DNA molecule according to claim 10, further comprising a nucleotide sequence encoding a suitable signal peptide 5' to and linked in frame to the DNA coding sequence.
12. (withdrawn) A vector comprising a DNA molecule of claim 11 in operative association with an expression control sequence therefor.

13. (withdrawn) A host cell transformed with the vector of claim 12.
14. (withdrawn) An isolated DNA molecule encoding human SDF-5 protein, said DNA molecule comprising nucleotide #256 to #1143 of SEQ ID NO: 1.
15. (withdrawn) A method for producing purified human SDF-5 protein, said method comprising the steps of:  
a) culturing a host cell transformed with a DNA sequence according to claim 1, comprising a nucleotide sequence encoding human SDF-5 protein; and  
b) recovering and purifying said human SDF-5 protein from the culture medium.
16. (withdrawn) A method for producing purified human SDF-5 protein said method comprising the steps of:  
a) culturing a host cell transformed with a DNA sequence according to claim 2, comprising a nucleotide sequence encoding human SDF-5 protein; and  
b) recovering and purifying said human SDF-5 protein from the culture medium.
17. (withdrawn) A method for producing purified human SDF-5 protein said method comprising the steps of:  
a) culturing a host cell transformed with a DNA sequence according to claim 7, comprising a nucleotide sequence encoding human SDF-5 protein; and  
b) recovering and purifying said human SDF-5 protein from the culture medium.
18. (currently amended) A purified human SDF-5 polypeptide comprising the amino acid sequence of SEQ ID NO: 2 ~~or SEQ ID NO: 3~~.
19. (previously presented) A purified human SDF-5 protein produced by the steps of  
a) culturing a cell transformed with a DNA molecule comprising the nucleotide sequence from nucleotide #316 to #1143 as shown in SEQ ID NO: 1; and  
b) recovering and purifying from said culture medium a protein comprising the amino acid sequence from amino acid #21 to amino acid #295 as shown in SEQ ID NO: 2.
20. (cancelled)
21. (withdrawn) A method for altering the regulation of pancreatic genes in a patient in need of same comprising administering to said patient an effective amount of the composition of claim 20.
22. (original) A purified human SDF-5 protein comprising the amino acid sequence from amino acid #1 to #295 of SEQ ID NO: 2.
23. (original) A purified human SDF-5 protein comprising the amino acid sequence from amino acid #1 to #275 of SEQ ID NO: 3.
24. (withdrawn) Antibodies to a purified human SDF-5 according to claim 22.
25. (cancelled)
26. (withdrawn) Antibodies to a purified human SDF-5 protein according to claim 25.

27. (withdrawn) A method for increasing the differentiation of cells into chondrocytes, said method comprising applying a composition comprising BMP-2 and SDF-5.

28. (cancelled)

29. (cancelled)

30. (not entered)

31. (not entered)

32. (not entered)

33. (new) A purified human SDF-5 polypeptide comprising the amino acid sequence of SEQ ID NO: 3.

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